Osdag®

Open steel design and graphics

FOSSEE Osdag Summer Fellowship - 2026

Note: If you have not registered for the FOSSEE Summer Fellowship, please do so at https://fossee.in/fellowship/2026

Internship under the Osdag Project:

The Osdag project invites interns to the following categories

Screening Task with Link to Detailed Task Description	**Preferred Qualifications and Skills**
Area of Interest: Civil Engineering Module Development One of the following 1. Design verification of steel connections 2. Structural Optimisation for OsdagBridge 3. Modelling and Analysis of steel-girder RC deck bridge in Python using the OpenseesPy 4. Bridge Cost Estimation - SOR Importing in Excel	Civil Engineering Documentation with LaTeX Knowledge of Steel/ Bridge Design Python Spreadsheet/MS Excel
Area of Interest: Software Development One of the following 1. Parametric 3D CAD Model of a Steel Girder Bridge (pythonOCC) 2. Enhancement of IFC wrapper for Osdag's pythonOCC 3D CAD Models 3. OsdagBridge Plots Integration in UI 4. Bridge module user-interface development (for desktop) 5. Bridge module user-interface development (for web) 6. Create a LaTeX environment for plugin 3psLCC	CE/CS/IT/Related Fields • Python • Pyside • UI/UX • React.js • Django REST • PostgreSQL • Three.js • Docker • Git, GitHub and GitHub Actions

SUBMISSION OF SCREENING TASK:

Please submit the following through the form [Link]:

- Your Resume (PDF)
- Undertaking/Self declaration form/ No Objection Certificate (NOC) from the Head of your Institution (PDF) — format available here
- Link to a short video of your work (URL)
- A Report (PDF)
- All supporting files as a ZIP file
- What is your preference, will you do an online internship or offline internship?

Ensure that your submission includes all the necessary components.
Please create a short video (screencast or recording) showcasing your Python/software program. The video can be silent, with no voiceover required. Upload this video to YouTube or any cloud platform and submit the link through the form.

For any clarifications, feel free to contact us. We also encourage you to join our Discord server [link:https://discord.gg/8K2CUZuaB] to become part of the Osdag community, where you can engage in discussions, seek support, and stay updated on future announcements.

For details regarding important dates and terms of engagement, please visit https://fossee.in/fellowship/2026

To stay updated with Osdag team news and updates, please follow our LinkedIn page (https://www.linkedin.com/company/osdag/).

Best regards,
FOSSEE Osdag Team
IIT Bombay

Want to learn about **Osdag?**

Attend this **FREE webinar** and get started with open-source steel design!

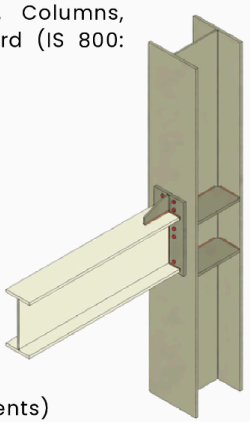
📅 Date: April 7, 2026
⏰ Time: 4:00 – 5:00 PM
🔗 Register: here
🗣️ Spread the word: LinkedIn post

WEBINAR ON

OSDAG: A FREE SOFTWARE FOR STRUCTURAL STEEL DESIGN

Introduction

Osdag® (Open Steel Design and Graphics) is a free and open-source software (FOSS) for designing and detailing of steel structures. It allows users to design different steel structure components like Beams, Columns, Connections, Plate Girders, etc, using the latest Indian Standard (IS 800: 2007) published by the Bureau of Indian Standards (BIS).



How Osdag is different

- Available for free (at zero cost) for academic as well as professional uses
- Design and detailing process reviewed by BIS code committee members
- Accurate 3D visualisation of the designed component
- Detailed design report showing all IS:800 checks

About the Program

- Introduction: What is Osdag? Motivation for developing Osdag
- Features and capabilities of Osdag (including latest developments)
- Guide on installing and using Osdag
- A demonstration!!!
- Connect with the Osdag Team

Speakers

Prof. Siddhartha Ghosh
Principal Investigator (PI), Osdag Project
JK Mehta & MJ Mehta Chair Professor of Structural Engineering
Department of Civil Engineering, IIT Bombay

& **Osdag Team,** FOSSEE, IIT Bomday

TUESDAY
APRIL 7TH, 2026
TIME: 4:00 - 5:00 PM

Benefits

For Students
- Visualise steel structures in 3D
- Explore textbook questions with Osdag for conceptual understanding

For Faculty Members
- Illustration on how to integrate Osdag with the steel design course
- Effective tool for demonstrating steel design procedures

For Industry Professionals
- Aligned to industry-relevant design philosophy and detailing practices
- Enjoy benefits of a transparent FOSS platform that allows verification of intermediate calculations and modification

LINK TO REGISTER :
HTTPS://FORMS.GLE/VWPQ3PAJKQCVXR3Z5

Registration: Free to all (But registration is mandatory)

Last Date to Register: April 5TH, 2026
(LIMITED SEATS- FIRST COME FIRST SERVE BASIS)